

FIG. 1A

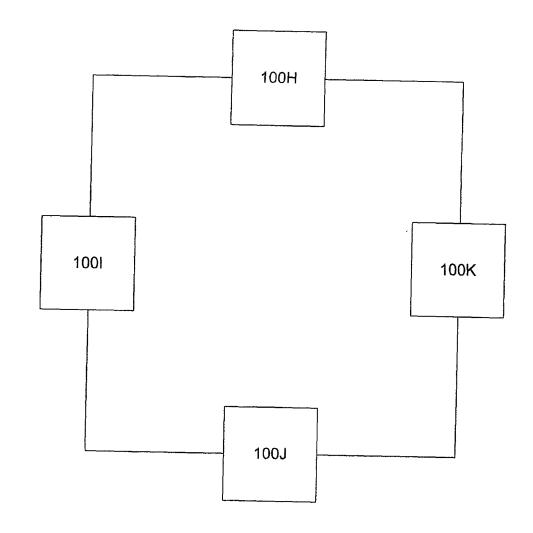
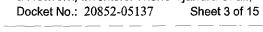


FIG. 1B



100N 100M 100L

FIG. 1C

a Network; Inventors: Trisno Tjandra et al.; Docket No.: 20852-05137 Sheet 4 of 15

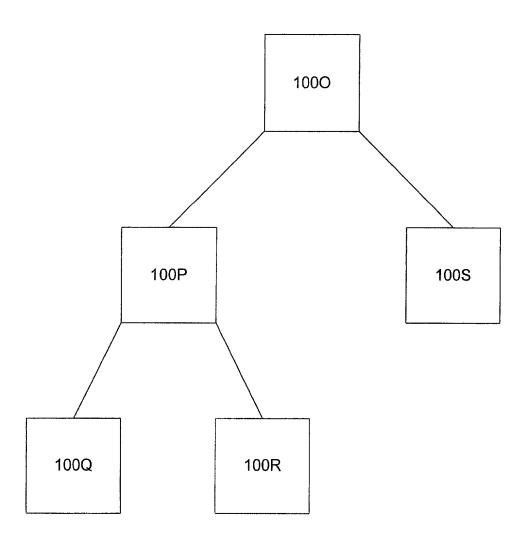


FIG. 1D

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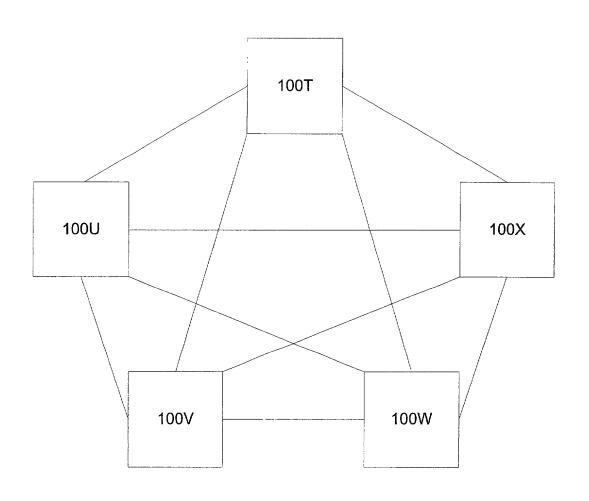


FIG. 1E

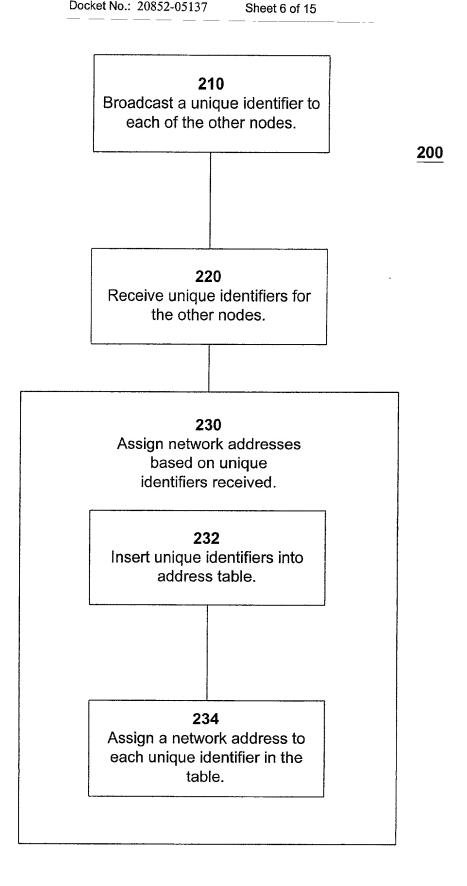


FIG. 2

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310 Periodically broadcast a unique identifier to each of the other nodes in the network. 320 300 Receive unique addresses for the other nodes in the network. 330 Does record Yes 340 containing Update the record. unique identifier exist? No 350 Create a new record in the address table for the newly received unique identifier. 360 Reassign network addresses based on the unique identifier in

FIG. 3

the address table.

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410	420	430	
	``)		
Node	Unique Identifier (MAC Address)	Network Address (IP Address)	
100H 100I 100J 100K	10.10.2 10.10.3 10.11.7 10.10.9	127.0.0.0 127.0.0.1 127.0.0.3 127.0.0.2	

400

FIG. 4A

410	<b>420</b>	430	440	<b>450</b>	
)	)	<u> </u>	<del>)</del>	<u> </u>	]
Node	Unique Identifier (MAC Address)	Network Address (IP Address)	Time to Live	Expired	415
100H 100I 100J 100K	10.10.2 10.10.3 10.11.7 10.10.9	127.0.0.0 127.0.0.1 127.0.0.3 127.0.0.2	15 0 15 10.5	0 1 0 0	

FIG. 4B

410	420	430	440	450
Node	Unique Identifier (MAC Address)	Network Address (IP Address)	Time to Live	Expired
100H 100J 100K 100L	10.10.2 10.10.7 10.11.9 10.10.12	127.0.0.0 127.0.0.3 127.0.0.1 127.0.0.2	15 15 15 15	0 0 0 0

FIG. 4C

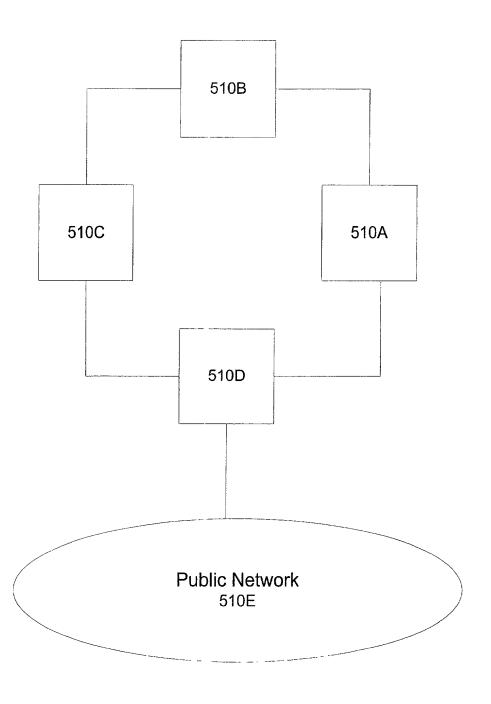


FIG. 5

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410	420	430	440	450

Node	Unique Identifier (MAC Address)	Network Address (IP Address)	Time to Live	Expired
100H	10.10.2	127.0.0.0	15	0
100I	10.10.3	127.0.0.1	15	0
100J	10.11.7	127.0.0.2	15	0
100K	10.10.9	127.0.0.3	15	0

FIG. 6A

410 430 450 420 440 Unique Network Time to Identifier (MAC Node Address (IP Expired Live Address) Address) 100H 10.10.2 127.0.0.0 15 0 1001 10.10.3 127.0.0.1 15 0 100J 10.11.7 127.0.0.2 0 1 100K 10.10.9 127.0.0.3 0 1

FIG. 6B

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410	420	430	440	450	
Node	Unique Identifier (MAC Address)	Network Address (IP Address)	Time to Live	Expired	620
100H 100I 100K	10.10.2 10.10.3 10.10.9	127.0.0.0 127.0.0.1 127.0.0.2	15 15 15	0 0 0	

FIG. 6C

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420 410 430 440 450 Unique Network Time to Identifier (MAC Expired Node Address (IP Live Address) Address) 100H 10.10.2 127.0.0.0 15 0 1001 10.10.3 127.0.0.1 15 0 100J 10.11.7 127.0.0.2 0 1 100K 10.10.9 127.0.0.3 0 15

FIG. 6D